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10275-137001

JANUARY 31, 2002

FISH & RICHARDSON P.C. LOUIS MYERS 225 FRANKLIN STREET BOSTON, MASSACHUSETTS 02110-2804 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 01/17/2002

REEL/FRAME: 012349/0127

NUMBER OF PAGES: 5

BRIEF:

DOCUMENT RE-RECORDED TO CORRECT ERRORS CONTAINED IN PROPERTY NUMBER 09398620 DOCUMENT PREVIOUSLY RECORDED ON REEL 010847

FRAME 0196.

ASSIGNOR:

POLLOCK, DAN

DOC DATE: 04/11/2001

ASSIGNOR:

ECHELAND, YANN

DOC DATE: 04/06/2001

ASSIGNOR:

MEADE, HARRY M.

DOC DATE: REGEIVED

ASSIGNEE:

GENZYME TRANSGENICS CORPORATION 175 CROSSING BOULEVARD POST OFFICE BOX 9322 FRAMINGHAM, MASSACHUSETTS 01701-

01701-9322 FFB 0 7 2002

FISH & RICHARDSON, RC. BOSTON OFFICE

SERIAL NUMBER: 09398610

PATENT NUMBER:

FILING DATE: 09/17/1999

ISSUE DATE:

NO DOCKETING REQUIRED

Reviewed By Practice Systems

Initials PEC On

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Substitute Form PTO-1595 Attorney Docket No.: 10275-137001

MPD OF REC

01-30-2002



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Commission in for Patents: Please record the attached original docume	eni(s) or copy(ies).		
Name of conveying party(ies):	Name and address of receiving party(ies):		
Dan Pollock, Yann Echelard and Harry M. Meade	Genzyme Transgenics Corporation		
Additional name(s) attached? Yes No	175 Crossing Boulevard		
3. Nature of conveyance:	Post Office Box 9322 Framingham, MA 01701-9322		
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Corrective of 010847/0195, Senal 09/398,620	Trainingnam, MA 01701-9322		
Execution Date: 04/06/00; 04/11/00	Additional names/addresses attached? 口 Yes 园 No		
4. Application number(s) or patent number(s):			
If this document is being filed with a new application, the execution	date of the application is:		
A. Patent Application No(s).:	B: Patent No(s).:		
09/398,610			
Additional numbers at	tached? ☐ Yes 图 No		
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1		
LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40		
Fish & Richardson P.C.	☐ Enclosed		
225 Franklin Street	☐ Authorized to charge Deposit Account.		
Boston, Massachusetts 02110-2804	8. Deposit Account No.: 06-1050		
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.		
DO NOT USE THIS SPACE LEE OR			
9. Statement and Signature: To the best of my knowledge and	bolish the foregoing information in the control of		
any attached copy is a true copy of the original document			
	1		
Laurie Butler Lawrence Reg. No. 46,593 Neme of Person Signing Signature	Whence 117/02		
To	otal number of pages including coversheet, attachments and document:		
2037 (320, doc			

CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

Date of Transmission

Signamed

Typed Name of Person Signing Confidence



06-16-2000

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SHEET

Substitute Form PTO-1595 Attorney Docket No.: 10275-137001

5-31.00

ssistant Commissioner for Patents: Please record the attached original Name of conveying party(les):	2. Name and address of receiving party(les):
Dan Pollock, Yann Echelard and Harry M. Meade	
Additional name(s) attached? □ Yes ® No	Genzyme Transgenics, Inc.
	Five Mountain Road
. Nature of conveyance:	Framingham, MA 01701-9322
Assignment Merger	•
Security Agreement	
☐ Change of Name	
□ Other:	Additional names/addresses attached? Yes No
Execution Date: 04/06/00 and 04/11/00	Additional facilities
. Application number(s) or patent number(s): 09/398,620	
If this document is being filed with a new application, the execut	ion date of the application is:
A. Patent Application No(s).:	B: Patent No(s).:
Additional numbers	attached? 🛘 Yes 🖾 No
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1
P. LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40
Fish & Richardson P.C.	S Enclosed
225 Franklin Street	☐ Authorized to charge Deposit Account.
Boston, MA 02110-2804	8. Deposit Account No.: 06-1050
	Please apply any additionally charges, or any credits, to our Deposit Account No. 06-1050.
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bonor	
9. Statement and Signature: To the best of my knowledge	and belief, the foregoing information is true and correct and
any attached copy is a true copy of the original document	ent.
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	0 1
Lauranne Butter	n Bete 5/26/00
Reg. No. P46,593 Name of Purson Signing Signature	Date
	Total number of pages including coversheet, attachments and documen

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40.00 QP

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents. Washington, D.C. 20231.

ASSIGNMENT

For valuable consideration, we, Dan Pollock of Medway, MA; Yann Echelard of Jamaica Plain, MA; and Harry M. Meade of Newton, MA, hereby assign to Genzyme Transgenics, Inc., a Massachusetts corporation having a place of business at: Five Mountain Road, Framingham, MA 01701-9322, and its successors and assigns (collectively hereinafter called "the Assignee"), th entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and we authorize and request the attorneys appointed in said application to hereafter complete 'his assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any f said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Che Manten Kener Franchicar
this
L.S.
Dan Pollock'
·
State of Things achieved's:
: 88.
County of The kilesex:
Before me this day of, 2000, personally appeared
Dan Pollock, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.
Notary Public
My Commission Expires: USA MARIE SEAVEY
Notary Public
[Notary's Seal Here] 4v Comm. Expires Dec. 13, 2002
IN WITNESS WHEREOF, I hereto set my hand and seal at 175 Cruzing, Block, Transcription Me,
11 11 11 11 11 11 11 11 11 11 11 11 11
this day of ff April, 2000
this
this day of ff April, 2000
this day of, 2000 Yann BchelardL.S.
this day of
this day of
Yann Echelard State of Maria Change Hr.:

Before me this day of	April 2	000, personally appeared
Yann Echelard, known to me to be the per	•	
Assignment and acknowledged that he exc	ecuted the same as his free a	ct and deed f r the
purposes therein contained.	- Ilani	Jany
[Notary's Seal Here]	Notary Public My Commission Expires:	USA MARIE SEAVLY Notan Public At Comm. Exotos Dec. 13, 2007
In WITNESS WHEREOF, I hereto set this day of / Harry M. Meade	t my hand and scal at Ari	Monatoria Rocal Francisco. L.S.
State of Massick offs: : ss. County of Mulet lease :		
Before me this/ day o	s-Houl	2000, personally appeared
Harry M. Meade, known to me to be the p	,	
Assignment and acknowledged that he ex		
purposes therein contained.	Notary Public	Lacy
	My Commission Expires:	USA MAR'IE SEAVEY NOTA' - Public
[Notary's Seal Here]+	t	1/ Comm. Exo los Dec. 13, 200?

APRIL 25, 2002

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Commissioner for Trademarks Arlington, VA 22202-3513 www.uspto.gov

FISH & RICHARDSON P.C. LOUIS MYERS. 225 FRANKLIN STREET BOSTON, MA 02110-2804

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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0047

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RYBAK, SUSANNA M.

DOC DATE: 04/06/2000

ASSIGNEE:

UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF HEALTH AND HUMAN SERVICES OFFICE OF TECHNOLOGY TRANSFER 6011 EXECUTIVE BLVD., SUITE 325 ROCKVILLE, MARYLAND 20852-3804

SERIAL NUMBER: 09398610

PATENT NUMBER:

FILING DATE: 09/17/1999

ISSUE DATE:

RECEIVED

SAUNDRA BALLENGER, EXAMINER APR 2 9 2002 ASSIGNMENT DIVISION

OFFICE OF PUBLIC RECORDS

FISH & RICHARDSON, P.C. **BOSTON OFFICE**

A March 1 - Alle PEC .

03-06-2002



102003322

Commissioner for Patents: Please record the attached original document(s) or copy(ies). 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Dr. Susanna M. Rybak United States of America, as represented by The Secretary of Health and Human Services Additional name(s) attached? ☐ Yes 图 No Office of Technology Transfer 3. Nature of conveyance: Suite 325 Assignment 6011 Executive Blvd. □ Merger Rockville, MD 20852-3804 □ Security Agreement ☐ Change of Name ☐ Other: Execution Date: 04/06/2000 Additional names/addresses attached? ☐ Yes ☑ No 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: B: Patent No(s).: 1 2 2002 09/398,610 Additional numbers attached? ☐ Yes 図 No 5. Name/address of party to whom correspondence concerning 6. Total number of applications/patents involved: 1 document should be mailed: **LOUIS MYERS** 7. Total fee (37 CFR §3.41): \$40 Fish & Richardson P.C. Enclosed 225 Franklin Street ☐ Authorized to charge Deposit Account. Boston, Massachusetts 02110-2804 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Laurie Butler Lawrence Reg. No. 46,593

20371937.doc

00000211 09398610

Name of Person Signing

40.00 DP

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Total number of pages including coversheet, attachments and document: 3

Substitut Form PTO-1595

Attorney Docket No.: 10275-137001



ASSIGNMENT

For valuable consideration, I, Susanna M. Rybak, of, Frederick, MD, hereby assign to the government of the United States of America as represented by the Secretary of the Department of Health and Human Services, (hereinafter, THE GOVERNMENT) and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Attorney's Docket No.: 10275-137001 IN WITNESS WHEREOF, I hereto set my hand and seal at / F day of __ this , 2000 Susanna M. Rybak State of Maryland:
: ss.
County of <u>Frederick</u>: Before me this ________, and ________, 2000, personally appeared Susanna M. Rybak, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that she executed the same as her free act and deed for the purposes therein contained.

My Commission Expires: 04/01/0/

20015173.doc

10275/137001

APRIL 17, 2003

FISH & RICHARDSON P.C. LOUIS MYERS 2255 FRANKLIN STREET BOSTON, MA 02110-2804

REFERENCED BELOW.

order Sec etary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office PTAS Washington, DC 20231 www.uspto.gov

APR 2 2 2003

FISH & RICHARDSON, P.C.

UNITED STATES PATENT AND TRADEMARK OFFICE

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RECORDATION DATE: 12/11/2002

REEL/FRAME: 013575/0931

NUMBER OF PAGES: 4

BRIEF:

CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE ASSIGNEE FILED ON 02/12/02. RECORDED ON REEL 012624 FRAME 0041. ASSIGNOR HEREBY CONFIRMS THE ENTIRE INTEREST.

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 07/24/2002

ASSIGNEE:

ASTRAZENECA UK LIMITED 15 STANHOPE GATE LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09396610

PATENT NUMBER:

FILING DATE: 09/15/1999

ISSUE DATE:

DOROTHY RILEY, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



12-18-2002 102314488

Substitute Form PTO-1595 Attorney Docket No.: 10275-137001 Client's Ref. No.: GTC-42

0.00000

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A STATE OF THE STA	
Commissioner for Patents: Please record the attached original docume	ent(s) or copy(ies).
Name of conveying party(ies):	Name and address of receiving party(ies):
Michael D. Édge /2 - 11 - 02	AstraZeneca UK Limited
Additional name(s) attached? ☐ Yes 图 No	15 Stanhope Gate
3. Nature of conveyance:	London W1Y 6LN United Kingdom
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☑ Other: Request to Correct Notice of Recordation of Assignment Document	Onited Kingdom
Execution Date: 7/24/02	Additional names/addresses attached?
4. Application number(s) or patent number(s):	>
If this document is being filed with a new application, the execution	
A. Patent Application No(s).:	B: Patent No(s).:
09/398,610	SE M
•	tached? ☐ Yes 図 No
Name/address of party to whom correspondence concerning document should be mailed:	date of the application is: B: Patent No(s).: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40
Fish & Richardson P.C.	图 Enclosed
225 Franklin Street	☐ Authorized to charge Deposit Account.
Boston, Massachusetts 02110-2804	8. Deposit Account No.: 06-1050
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE	THIS SPACE
9. Statement and Signature: To the best of my knowledge and any attached copy is a true copy of the original document	belief, the foregoing information is true and correct and .
Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing Signature	Lawrence 18/04/02
Total	number of pages including coversheet, attachments and document: 3
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12/17/2002 DEYRHE 00000208 09398610 01 FC:8021 40.00/0P

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12/6/02 Date of Deposit Cassardra Beepot

Typed Name of Person Signing Certificate

M212 62 RECO



Substitute Form PTO-1595 Attorney Docket No.: 10275-137001

Commissioner for Pat nts: Please record th attached original docume	int(s) or sonv(ies)	
Name of conveying party(ies):	Name and address of receiving party(ies):	
Michael D. Edge	AstraZeneca Limited	
Additional name(s) attached? ☐ Yes ☒ No	15 Stanhope Gate	
3. Nature of conveyance:	London W1Y 6LN	
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other:	United Kingdom	
Execution Date: 03/16/2000	Additional names/addresses attached? ☐ Yes ☑ No	
4. Application number(s) or patent number(s):		
If this document is being filed with a new application, the execution	date of the application is:	
A. Patent Application No(s).:	B: Patent No(s).:	
09/398,610	FEB 1.2 2002	
Additional numbers at	FEB 1 2 2002	
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1	
LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40	
Fish & Richardson P.C.	☑ Enclosed	
225 Franklin Street	☐ Authorized to charge Deposit Account.	
Boston, Massachusetts 02110-2804	8. Deposit Account No.: 06-1050	
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DO NOT USE	THIS SPACE	
Statement and Signature: To the best of my knowledge and any attached copy is a true copy of the original document	belief, the foregoing information is true and correct and	
Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing Signature	2W/19102 117/02 Date	
Tota	number of pages including coversheet, attachments and docum nt: 3	
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63/05/2002 6TON11

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Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, Michael D. Edge, of Macclesfield, Cheshire, United Kingdom, hereby assign to AstraZeneca UK Limited, a Great Britain corporation having a place of business at 15 Stanhope Gate, London W1Y 6LN, United Kingdom, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610. and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

In Witness Whereof, I	hereto set my hand and seal at	CHESTER, U.K.
this 24th day of Tu		L.S.
Michael D. Edge	· ·	
State of UNITED KINGTOM .:	SS.	
County of Custer :	55.	
Before me this 24th	day of Fuly	, 2002, personally appeared
Michael D. Edge, known to me	to be the person whose name is	subscribed to the foregoing
Assignment and acknowledged	that he executed the same as his	free act and deed for the
purposes therein contained.	Q.	bu lucere
	Notary Public	
	My Commission Exp	ires: at death.
	ROBIN GALBRAITH MOORE	
	NOTARY PUBLIC	•
	Grosvenor Court, Chester	
	CH1 1HG	

Attorney's Docket No.: 10275-137001 / GTC-42

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael D. Edge et al.

Art Unit

: 1632

Serial No.

09/398,610

Examiner

: A. Beckerleg

Filed

: September 17, 1999

Title

: TRANSGENICALLY PRODUCED FUSION PROTEINS

U.S. Patent and Trademark Office **Assignment Division** Box Assignments—CG-4 1213 Jefferson Davis Highway Suite 320 Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Applicants request that the assignee's name be corrected on the Notice of Recordation of Assignment Document for the above case. The assignee's name was misidentified on the originally filed Recordation Form Cover Sheet and should read -- AstraZeneca UK Limited --. A copy of the Notice of Recordation of Assignment Document showing the desired change in red ink is attached for your convenience. Also included is a new Recordation Form Cover Sheet and Assignment indicating the correct assignee name.

As the mistake was made by us, enclosed is our check for the \$40.00 fee. Please apply any charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Fish & Richardson P.C.

Laurie Butler Lawrence

Reg. No. 46,593

225 Franklin Street Boston, Massachusetts 02110-2804

(617) 542-5070 telephone

(617) 542-8906 facsimile

20551448.doc

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Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

10275-137001

APRIL 25, 2002

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Commissioner for Trademarks Arlington, VA 22202-3513 www.uspto.gov

FISH & RICHARDSON P.C. LOUIS MARKS 225 FRANKLIN STREET BOSTON, MA 02110-2804



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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0041

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 03/16/2000

ASSIGNEE: UK

ASTRAZENECA LIMITED 15 STANHOPE GATE

LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09398610

PATENT NUMBER:

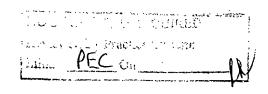
FILING DATE: 09/17/1999

ISSUE DATE:

LAZENA MARTIN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS RECEIVED

APR 2. 9 2002

FISH & RICHARDSON, P.C.
BOSTON OFFICE





10275/137001

APRIL 17, 2003

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Comm rce For Intellectual Property and Director of the United States Pat nt and Trademark Office

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Washington, DC 20231 www.uspto.gov

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RECORDATION DATE: 12/11/2002

REEL/FRAME: 013575/0931

NUMBER OF PAGES: 4

BRIEF:

CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE ASSIGNEE FILED ON 02/12/02. RECORDED ON REEL 012624 FRAME 0041. ASSIGNOR HEREBY

CONFIRMS THE ENTIRE INTEREST.

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 07/24/2002

ASSIGNEE:

ASTRAZENECA UK LIMITED 15 STANHOPE GATE LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09396610

PATENT NUMBER:

FILING DATE: 09/15/1999

ISSUE DATE:

DOROTHY RILEY, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



Substitute Form PTO-1595 Attomey Docket No.: 10275-137001 Client's Ref. No.: GTC-42

HEET

102314488

Commissioner for Patents: Please record the attached original docum	ent(s) or copy(les).	
Name of conveying party(ies):	2. Name and address of receiving party(ies):	
Michael D. Edge 12 - 11 - 02	AstraZeneca UK Limited	
Additional name(s) attached? ☐ Yes ឱ No	15 Stanhope Gate	
3. Nature of conveyance:	London W1Y 6LN	
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name 図 Other: Request to Correct Notice of Recordation of Assignment Document	United Kingdom	
Execution Date: 7/24/02	Additional names/addresses attached? es No	
Application number(s) or patent number(s):	2 A S	
If this document is being filed with a new application, the execution	date of the application is:	
A. Patent Application No(s).:	B: Patent No(s).:	
09/398,610		
Additional numbers at	tached? ☐ Yes 図 No	
Name/address of party to whom correspondence concerning document should be mailed:	date of the application is: B: Patent No(s).: tached? □ Yes া No 6. Total number of applications/patents involved: 1	
LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40	
Fish & Richardson P.C.	☑ Enclosed	
225 Franklin Street Boston, Massachusetts 02110-2804	☐ Authorized to charge Deposit Account.	
DOSION, Massachusetts 02 10-2004	8. Deposit Account No.: 06-1050	
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
DO NOT USE	THIS SPACE	
	•	
9. Statement and Signature: To the best of my knowledge and	belief, the foregoing information is true and correct and	
any attached copy is a true copy of the original document.		
Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing Signatule	Lawrence 18/04/02	
Total	number of pages including coversheet, attachments and document: 3	
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12/17/2002 DEYRHE 00000208 09398610

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Cassarda Beepot

Cassandra Beerot
Typed Name of Person Signing Certificate



Substitute Form PTO-1595 Attorney Docket No.: 10275-137001

Commissioner for Patents: Please record the attached original document(s) or sopy(ies). 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Michael D. Edge AstraZeneca Limited 15 Stanhope Gate Additional name(s) attached? ☐ Yes London W1Y 6LN 3. Nature of conveyance: United Kingdom Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date: 03/16/2000 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: B: Patent No(s).: 09/398,610 Additional numbers attached? □ Yes 图 No 5. Name/address of party to whom correspondence concerning 6. Total number of applications/patents involved: 1 document should be mailed: **LOUIS MYERS** 7. Total fee (37 CFR §3.41): \$40 Fish & Richardson P.C. ■ Enclosed 225 Franklin Street ☐ Authorized to charge Deposit Account. Boston, Massachusetts 02110-2804 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing

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01 FC:581

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Total number of pages including coversheet, attachments and docum nt: 3

ASSIGNMENT

For valuable consideration, I, Michael D. Edge, of Macclesfield, Cheshire, United Kingdom, hereby assign to AstraZeneca UK Limited, a Great Britain corporation having a place of business at 15 Stanhope Gate, London W1Y 6LN, United Kingdom, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

In Witness Whereof, I l	nereto set my hand and seal at _	CHESTER	U.K
this 24th day of Jul			L.S.
Michael D. Edge			
State of UNITED KINGSOM:: : s County of Circuit TER::			
County of Circs TER:			
Before me this 24th	day of Fuly	, 2002, persona	lly appeared
Michael D. Edge, known to me to	be the person whose name is s	ubscribed to the fo	regoing
Assignment and acknowledged th	at he executed the same as his	free act and deed for	or the
purposes therein contained.	Bu	our Masse	
	Notary Public		
	My Commission Expir	res: at death	
	ROBIN GALBRAITH MOORE		
	NOTARY PUBLIC		
	Grosvenor Court, Chester		
	CH1 1HG		

s Docket No.: 10275-137001 / GTC-42

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael D. Edge et al.

Art Unit : 1632

Serial No.

09/398,610

Examiner

: A. Beckerleg

Filed

September 17, 1999

Title

TRANSGENICALLY PRODUCED FUSION PROTEINS

U.S. Patent and Trademark Office **Assignment Division** Box Assignments—CG-4 1213 Jefferson Davis Highway Suite 320 Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Applicants request that the assignee's name be corrected on the Notice of Recordation of Assignment Document for the above case. The assignee's name was misidentified on the originally filed Recordation Form Cover Sheet and should read -- AstraZeneca UK Limited --. A copy of the Notice of Recordation of Assignment Document showing the desired change in red ink is attached for your convenience. Also included is a new Recordation Form Cover Sheet and Assignment indicating the correct assignee name.

As the mistake was made by us, enclosed is our check for the \$40.00 fee. Please apply any charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Laurie Butler Lawrence

Reg. No. 46,593

225 Franklin Street Boston, Massachusetts 02110-2804 (617) 542-5070 telephone

(617) 542-8906 facsimile

Fish & Richardson P.C.

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Date of Deposit

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APRIL 25, 2002

10275-137001

Commissioner for Trademarks Arlington, VA 22202-3513

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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0041

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 03/16/2000

ASSIGNEE: UK

ASTRAZENECA LIMITED
15 STANHOPE GATE

LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09398610

PATENT NUMBER:

FILING DATE: 09/17/1999

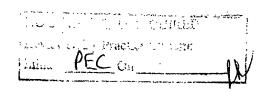
ISSUE DATE:

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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0047

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RYBAK, SUSANNA M.

DOC DATE: 04/06/2000

ASSIGNEE:

UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF HEALTH AND HUMAN SERVICES OFFICE OF TECHNOLOGY TRANSFER 6011 EXECUTIVE BLVD., SUITE 325 ROCKVILLE, MARYLAND 20852-3804

SERIAL NUMBER: 09398610

PATENT NUMBER:

FILING DATE: 09/17/1999

ISSUE DATE:

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SAUNDRA BALLENGER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS





03-06-2002



102003322

Commissioner for Patents: Please record the attached original document(s) or copy(les). 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): United States of America, as represented by The Dr. Susanna M. Rybak Secretary of Health and Human Services Additional name(s) attached?

Yes
No Office of Technology Transfer 3. Nature of conveyance: Suite 325 ☑ Assignment 6011 Executive Blvd. ☐ Merger Rockville, MD 20852-3804 ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date: 04/06/2000 Additional names/addresses attached? □ Yes ☑ No 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: B: Patent No(s).: 1 2 2002 09/398,610 Additional numbers attached? ☐ Yes 図 No 5. Name/address of party to whom correspondence concerning 6. Total number of applications/patents involved: 1 document should be mailed: LOUIS MYERS 7. Total fee (37 CFR §3.41): \$40 Fish & Richardson P.C. ☑ Enclosed 225 Franklin Street ☐ Authorized to charge Deposit Account. Boston, Massachusetts 02110-2804 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing Total number of pages including coversheet, attachments and document: 3

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FC:581

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Substitute Form PTO-1595

Attorney Docket No.: 10275-137001

ASSIGNMENT

For valuable consideration, I, Susanna M. Rybak, of, Frederick, MD, hereby assign to the government of the United States of America as represented by the Secretary of the Department of Health and Human Services, (hereinafter, THE GOVERNMENT) and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

[Notary's Seal Here]

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10275-134001



JANUARY 31, 2002

PTAS

FISH & RICHARDSON P.C. LOUIS MYERS 225 FRANKLIN STREET BOSTON, MASSACHUSETTS 02110-2804 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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RECORDATION DATE: 01/17/2002

REEL/FRAME: 012349/0127

NUMBER OF PAGES: 5

BRIEF:

DOCUMENT RE-RECORDED TO CORRECT ERRORS CONTAINED IN PROPERTY NUMBER 09398620 DOCUMENT PREVIOUSLY RECORDED ON REEL 010847

FRAME 0196.

ASSIGNOR:

POLLOCK, DAN

DOC DATE: 04/11/2001

ASSIGNOR:

ECHELAND, YANN

DOC DATE: 04/06/2001

ASSIGNOR:

MEADE, HARRY M.

DOC DATE: REGEIVED

ASSIGNEE:

GENZYME TRANSGENICS CORPORATION 175 CROSSING BOULEVARD POST OFFICE BOX 9322 FRAMINGHAM, MASSACHUSETTS

01701-9322 FFB 0 7 2002

FISH & RICHARDSON, RG. BOSTON OFFICE

SERIAL NUMBER: 09398610

PATENT NUMBER:

FILING DATE: 09/17/1999

ISSUE DATE:

NO DOCKETING REQUIRED

Reviewed By Practice Systems

Initials PEC On

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

APO NE

01-30-2002



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Commissioner for Patents: Please record the attached original document(a) or copy(les). 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Genzyme Transgenics Corporation Dan Pollock, Yann Echelard and Harry M. Meade 175 Crossing Boulevard Additional name(s) attached? Yes No Post Office Box 9322 3. Nature of conveyance: Framingham, MA 01701-9322 ☐ Assignment ☐ Merger □ Security Agreement ☐ Change of Name ☑ Other: Corrective of 010847/0195, Serial 09/398,620 Additional names/addresses attached?

Yes

No Execution Date: 04/06/00; 04/11/00 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: B: Patent No(s). A. Patent Application No(s).: 09/398.610 Additional numbers attached? ☐ Yes 図 No 5. Name/address of party to whom correspondence concerning Total number of applications/patents involved: 1 document should be mailed: 7. Total fee (37 CFR §3.41): \$40 **LOUIS MYERS** Fish & Richardson P.C. □ Enclosed 225 Franklin Street ☐ Authorized to charge Deposit Account. Boston, Massachusetts 02110-2804 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 05-1050. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing

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06-16-2000

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Substitute Form PTO-1595 Attorney Docket No.: 10275-137001

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	record the attached original document(s) or copy(les). 2. Name and address of receiving party(les):
Name of conveying party(les):	
Dan Pollock, Yann Echelard and	Harry M. Meade
Additional name(s) attached?	Genzyme Transgenics, inc. Five Mountain Road
3. Nature of conveyance:	Framingham, MA 01701-9322
Assignment	Training that it is a second of the second o
☐ Merger	1
☐ Security Agreement ☐ Change of Name ☐ Other:	
Execution Date: 04/08/00 and 04/11	I/00 Additional names/addresses attached? ☐ Yes ☑ No
4. Application number(s) or patent number(s	
If this document is being filed with a new	application, the execution date of the application is:
A. Patent Application No(s).:	B: Patent No(s).:
V. Lataur Managari Ledah.	
	Additional numbers attached? □ Yes 図 No
Name/address of party to whom correspondocument should be mailed:	
P. LOUIS MYERS	7. Total fee (37 CFR §3.41): \$40
Fish & Richardson P.C.	≅ Enclosed
225 Franklin Street	☐ Authorized to charge Deposit Account.
Boston, MA 02110-2804	8. Deposit Account No.: 06-1050
	Please apply any additionally charges, or any credits, to o Deposit Account No. 06-1050.
	TO MAKE THE COACE
	DO NOT USE THIS SPACE
9. Statement and Signature: To the best any attached copy is a true copy of Lauranne Butter Reg. No. P46,593 Name of Purson Signing	of my knowledge and belief, the foregoing information is true and correc
Lauranne Butter Reg. No. P46.593	t of my knowledge and belief, the foregoing information is true and correct the original document. Signature
Lauranne Butter Reg. No. P46.593	t of my knowledge and belief, the foregoing information is true and correct the original document. Signature
Lauranne Butter Reg. No. P46.593 Name of Purson Signing	of my knowledge and belief, the foregoing information is true and correct the original document. Signature 100 10
Lauranne Butler Reg. No. P46.593 Name of Purson Signing	Total number of pages including coversheet, attachments and doc
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Lauranne Butler Reg. No. P46,593 Name of Purson Signing 20087256.doc 000 ASCOTT 00000140 09398620 CERTIFICA 1 hereby certifirst class ma	Total number of pages including coversheet, attachments and document. Total number of pages including coversheet, attachments and document.

<u>ASSIGNMENT</u>

For valuable consideration, we, Dan Pollock of Medway, MA; Yann Echelard of Jamaica Plain, MA; and Harry M. Meade of Newton, MA, hereby assign to Genzyme Transgenics, Inc., a Massachusetts corporation having a place of business at: Five Mountain Road, Framingham, MA 01701-9322, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and we authorize and request the attorneys appointed in said application to hereafter complete 'his assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Cae Manten Recei France have
this // day of Flori (, 2000
L.S.
Dan Pollock'
•
State of Things are have the
: 85.
County of The koleiex:
Before me this day of, 2000, personally appeared
Dan Pollock, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.
filler Same
Notary Public
My Commission Expires: USA MARIE SEAVEY
- Notary Public
[Notary's Seal Here] Av Comm. Expires Dec. 13, 2002
IN WITNESS WHEREOF, I hereto set my hand and seal at 195 Crewing, Block, Transcription Me,
this, day of, 2000
L.S.
Yann Echelard
State of Mericachant HE:
: 85.
: 88. County of Midtlesex:
County of 1 11000 to see .

Before m this day o	f April, 2000, persona	lly appeared	
Yann Echelard, known to me to be the per			
Assignment and acknowledged that he ex	ecuted the same as his free act and deed fo	or the	
purposes therein contained.	Jan Jan	4	
	Notary Public		
	Mar Commission Evnires	Parit Stavly Public	
[Notary's Seal Here]	Av Comm. Ex	oitos Dec. 13, 2002	
In Witness Whereof, I hereto se	t my hand and seal at Che Honaton K	Coul Franchun	
this 11 day of Floris	, 2000		
Harry M. Mede	<u></u>	L.S.	
Harry M. Meade			
State of Massicher :: : ss. County of Muldles :: :			
County of Thuldles ::			
Before me this day of 2000, personally appeared			
Harry M. Meade, known to me to be the	person whose name is subscribed to the fo	regoing	
Assignment and acknowledged that he ex	ecuted the same as his free act and deed f	or the	
purposes therein contained.	I have for		
No.	Notary Public	, , , , , , , , , , , , , , , , , , , 	
	My Commission Expires: USA WAR'S		
[Notary's Seal Here]+		Dec. 13, 200?	